

Eye-Pal ROL



User Manual

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Introduction

Congratulations on choosing the Eye-Pal ROL device.

ABiSee's Eye-Pal ROL is a portable electronic text-to-speech device. At the same time, the ROL can be used as a multi-tasking daily assistant for people with visual impairment. You can enjoy reading any printed material such as letters, newspapers and books. The text will be read aloud to you using a naturally sounding voice. You can use the ROL as an alarm clock or an appointment reminder as well.

It is a truly portable device, weighing only 3.5 pounds. It has a built-in rechargeable battery, and is characterized by a contemporary design with time-tested simple controls. Thus, it is easy to operate for senior citizens and people with disabilities, whether it is being used to read, to record and schedule voice reminders, or to listen to the alerts. The additional talking clock feature comes in handy many times a day.

This manual will familiarize you with the functions and features of the ROL. In order to get the maximum benefit from using your new ROL, please browse the description of all of the device's functions.

If you have any questions or suggestions concerning the use of the ROL, please contact us at ABiSee, Inc. using the contact information on the last page of this manual - your feedback is greatly appreciated.

We hope you enjoy using your ROL.

What's in the Box

In the ROL box you will find:

- the ROL device
- the ROL power supply
- the ROL power cord
- this user manual

If any of these items are missing from your package, please contact us at ABiSee, Inc. using the contact information on the last page of this manual.

The Basics

Reading Cameras

The ROL has two 5 mega pixel cameras. Both cameras work simultaneously to take a snapshot of your material. Position the document *sideways* in front of the ROL. The optimal camera-viewable area is a letter/A4 paper-sized (8.5" by 11") rectangle alongside the front of the device.

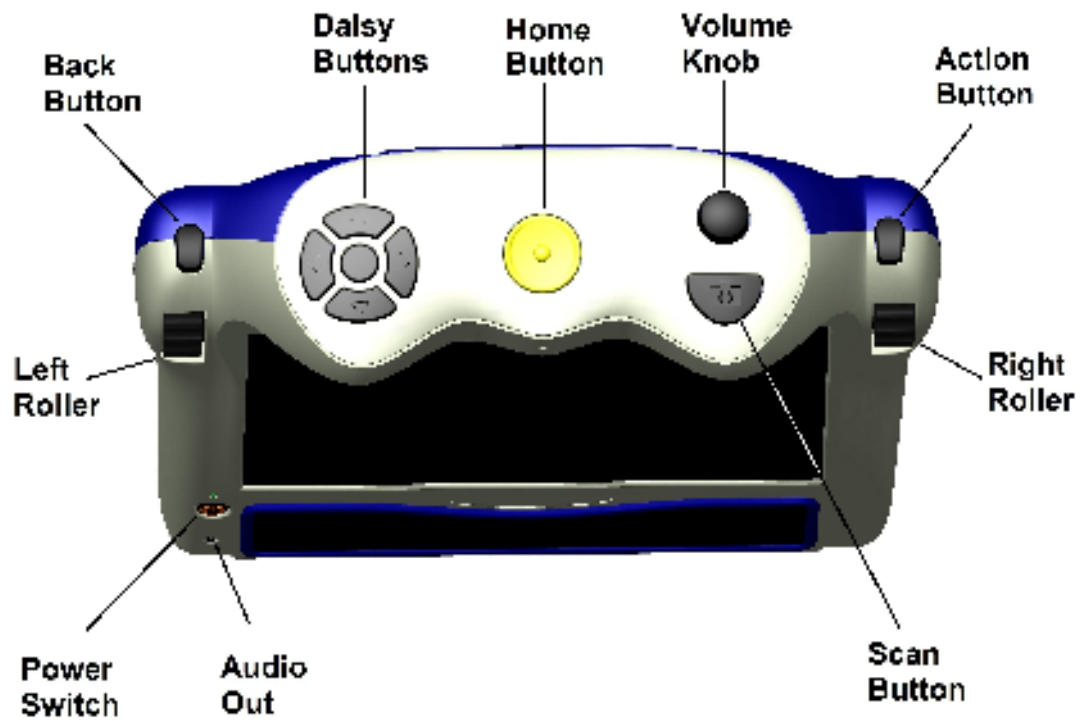
Object Lighting

Both cameras automatically provide sufficient lighting when taking a snapshot. No additional light is needed even in a dark room.

Speakers

Any material with printed text placed in front of the ROL will be read out loud using built-in speakers.

Buttons, Controls, Connections



The Front Panel has these Buttons:

- Home Button: press it to get to the Main Menu
- Scan Button: press it to take a snapshot of a document
- Volume Knob: turn it to control the volume
- Right Roller: use it to scroll down the menu (voice prompts will be given for selections)
- Action Button: use it confirm your selection of a menu item
- Left Roller: use it to scroll up or down to adjust reading speed
- Back Button: press to return to previous sub-menu item or to turn camera light on or off
- Set of five Daisy Buttons: press the Daisy arrow Buttons to move up, down, left, right; press the center Daisy Button to remind you of which function you are currently using or to pause/resume.

Home Button:

A large round button located in the middle on top of the device. Press it anytime to go to the Main Menu.

Volume Knob:

Located in the upper right corner, on top of the device. Turn it clockwise to increase the volume, or counterclockwise to decrease the volume.

Daisy Buttons

These are located on the left side on top of the device. Daisy Buttons have total of five buttons: four arrow buttons and one round button located in the center of the arrows.

In Scan and Read mode:

- Press the round button in the center of the arrow keys to stop/resume reading. The center button can also be used to remind you which function you are currently using
- Press the left arrow to read the previous word
- Press the right arrow to read the next word
- Press the up-arrow to go to the top of text
- Press the down-arrow to go to the bottom of text

Action Button

This is located on the right side of the device above the Right Roller. Press this button to select the desired menu option. In Reading mode – this button is used to pause and resume reading.

The Right Roller

This is located on the front right shoulder of the device. Scroll it up or down to go through the voice prompted menu options. In reading mode –scroll up or down to go to the previous or next line.

The Left Roller

This is located on the front left shoulder of the device. Scroll it to adjust the reading speed.

Scan Button

This is a semi-circle Button located on the right on top of the device in front of the volume Button.

Back Button

This is located above the left roller. This is located above the Left Roller. From the Main Menu, when you select an option such as the clock or the settings choice, you can access additional functions from a sub-menu. From a sub-menu, press the Back Button to return to a previous menu option. The Back Button can also be used to turn the camera light off or on in the Scan and Read mode. Press it once to turn the camera light off. You will hear, “Light Off.” Press it again to turn the camera light on. You will hear, “Light On.”

Audio Output Socket

A 3.5mm audio output socket is located on the front of the device in the lower left corner, below the Power Button. The audio socket can be used for plugging in external speakers or a headset.

Side Connections

On the left side panel there is an outlet for the power connector and a USB port.

Please note: Button functions are further described in detail in the Navigation and Settings section of this document.

Power and Battery

Power Switch Button

The Power switch Button is located on the front of the device in the lower left corner.

Power Indicator Light

The Power indicator light is located above the power Button. The light glows steady green when the device is on; the light blinks when device is in standby mode; and the light is off when the device is turned off. The power indicator light glows red when the device is off and is being charged. The power indicator light glows orange when the device is on and is being charged.

Power Up

Press the Power Button to power up the device. The start-up process takes approximately 50 seconds. You will hear a series of beeps that let you know the device is starting up. When the ROL is ready, you will hear the announcement: "Main Menu: Scan and Read."

Standby Mode

After five minutes of inactivity, the ROL goes into standby mode in order to consume less power. A beeping sound and a blinking power indicator light indicate that the device is on standby. Press the power Button to wake up the ROL and return it to the active mode. It will take about 30 seconds for the ROL to "wake up": You will hear a series of beeps followed by the announcement: "Main Menu: Scan and Read."

Power Down

Press and hold the power Button for approximately five seconds to power down the ROL completely.

Checking the Battery Charge Status

In order to view the battery charge status, press the Home Button. Then, use the Right Roller to scroll until you hear "Settings," and press the Action Button to select. Finally, use the Right Roller again to scroll until you hear "Status," and press the Action Button to select. The ROL will announce the percentage of

available battery.

“100%” means a fully charged battery. If the battery charge is below 15%, it is time to re-charge the device. The ROL can be used while it is being charged.

Charging the Battery

In order to charge the ROL, connect the power supply and the power cord; plug the power supply cord into the power port located at the bottom of the left side panel; and plug the power supply into a power outlet.

Before the first use, the ROL’s battery needs to be charged. Plug your ROL into the outlet using the power supply provided, and let it charge for two hours. Do not use the ROL while it is being charged for the first time. Later on, the device can be used while it is being charged.

In general, charging a depleted ROL battery to full capacity takes approximately two hours. A fully charged ROL battery lasts for about five hours of continued use.

Please note that for safety reasons, only the adapter supplied by ABiSee, Inc. should be used to charge the ROL device.

Extending Battery Life

In order to ensure that the battery operates efficiently for a long time, disconnect the ROL from the power source at least once a month, and operate it on battery power until the battery charge goes down to below 15%.

Reading with the Eye-Pal ROL for the First Time

Before the first use, the ROL’s battery needs to be charged. Plug your ROL into the outlet using the power supply provided, and let it charge for two hours.

After the device has been charging for two hours, place a document sideways alongside the front of the ROL. Turn on the ROL device. You will hear a series of beeps followed by the announcement: “Main Menu: Scan and Read.”

Press the Scan Button once – you will hear a shutter sound. The ROL device will start reading the text almost immediately after that.

Do not press any other buttons when doing the Scan and Read operation, as it will interrupt the scanning/reading process.

Navigation and Settings

In general, use the **Right Roller** to scroll through the menu items and the **Action Button** to confirm the menu selection. Use the **Back Button** to return to the previous menu. Use the **Home Button** to return to the Main Menu.

Main Menu

The Main Menu consists of the following menu items:

- Scan and Read
- Calendar (Includes reminder function)
- Clock (Includes alarm function)
- Settings
- Help

Scan and Read

This application helps you read printed text like letters, documents, books, food packages, and pill bottle labels, including the fine print. The ROL will read printed text aloud.

Positioning the document:

Position the document *sideways* in front of Eye-Pal ROL. The optimal camera-viewable area is a letter/A4 paper-sized (8.5" by 11") rectangle alongside the front of the device. The orientation of the document will not influence the recognition of the text.

Scanning Printed Material:

Press the Action Button to enter the Scan and Read menu item. Next, press the Scan Button to capture the page for reading aloud. Alternatively, you can press the Scan Button right away: The ROL will take a snapshot and will start reading aloud. To pause/resume the reading, press the Action Button (or, alternatively, press the center Daisy Button).

Reading Speed

The speed with which the document is read aloud by the ROL is controlled by the Left Roller or through the Settings. To change the reading speed while the ROL reading aloud, simply scroll the Left Roller up or down.

In order to change the **Reading speed** through the settings, press the **Home Button** to go to the **Main Menu**. Then, use the **Right Roller** to scroll down to the **Settings** menu item. Press the **Action Button** to confirm the menu item selection. Next, use the **Right Roller** to scroll down to the **General Settings**. Press the **Action Button** to confirm the menu item selection, and then use the **Right Roller** to scroll down to the **Reading Speed** option. Next, press the **Action Button** to confirm the menu item selection. Then, use the **Right Roller** to scroll between the speed values from 1 (the slowest) to 10 (the fastest). Press the **Action Button** one final time to set the selection.

Voice/Language

In order to adjust the setting for your preferred reading voice or language, press the **Home Button** to go to the **Main Menu**. Then, use the **Right Roller** to scroll down to the **Settings** menu item. Press the **Action Button** to confirm the menu item selection. Next, use the **Right Roller** to scroll down to the **General Settings**. Press the **Action Button** to confirm the menu item selection, and then use the **Right Roller** to scroll down to the **Voice** option. Next, press the **Action Button** to confirm the menu item selection. Use the **Right Roller** to scroll through available language/voice combinations. Press the **Action Button** one final time to set the selection.

The reading language and language of the document must match in order for the text recognition to be accurate.

Navigate Through Text

Five standard Daisy Buttons are used for text navigation. Press the left or right arrow buttons to move to, respectively, the previous or next word that the ROL reads aloud. Press the up or down arrow buttons to move to, respectively, the top or bottom of the page. Scroll up or down with the right roller to moves to, respectively, the previous or next line.

Press the center Daisy Button to pause/resume reading.

By default, the ROL will recognize *text columns* as separate pages. If you wish to disable the column recognition in order to accurately read tabulated text,

press and hold the left and right arrow buttons simultaneously until you hear the announcement "Switched to table mode." Press the same two buttons again when you want to switch back.

Press the up and down arrow buttons simultaneously to hear the orientation of the document.

Reading Volume

Turn the Volume Knob clockwise to increase the volume of the voice. Alternatively, turn the knob counterclockwise to decrease the volume.

Tables and Spreadsheets

By default, the ROL will recognize *text columns* as separate pages. If you wish to disable the column recognition in order to accurately read tabulated text, press and hold the left and right arrow buttons simultaneously until you hear the announcement "Switched to table mode." Press the same two buttons again when you want to switch back.

Reading Tall Packaging

To read a tall food package, like a cracker box, place the object under the right camera, and press and hold the Scan Button for three seconds. This will allow the camera to bring the item into sharp focus before taking the snap shot.

Managing Documents

Saving Documents and Books

The ROL allows you to save single-page documents, multi-page documents and books. Documents and books can be saved internally, or on an USB external memory device (flash drive). If a flash drive is plugged in, the documents will be saved on it. If there is not a flash drive plugged in, it will be saved internally.

Saving a Single-page Document

To start saving a document, select Scan and Read from the Main Menu using the Action Button.

Steps to save a single-page document:

Press the Scan Button to scan the document. After the ROL starts reading the text, press and hold the Action Button, then press the Back Button. Three options will be given:

- Save:
- Open:
- Delete:

If the first option you hear is Save, press the Action Button. If the first option you hear is not Save, use the Right Roller until you come to the Save option, and then press the Action Button. The Save menu will announce with three options:

- Save without voice label
- Save with voice label (for use only for items saved to the ACE device, not to a USB flash drive)
- Save Book

Select the first option to save a single-page document without a voice label and press the Action Button. The name of the saved document will be the first line of text. If the document does not resume reading on its own, press the round center button in the middle of the Daisy Button arrows to resume reading.

Select the second option to save the document with voice label, and press the Action Button. You will hear the prompt: "Please record five-second voice label." Speak the name of the document after you hear a beep. At the end of the recording you will hear another beep, and the voice label will be played back to you. If you are satisfied with your recording, press the Action Button, and the document will be saved. To cancel the recording, press the Back Button. You will be prompted to record again.

NOTE: Single-page documents are saved as text file. If the page has a lot of text or complex configuration, the OCR process may take more than a minute. Please do not interrupt it until OCR is complete and text begins to be read aloud.

Saving a Multi-page Document or Book

To start saving a multi-page document or book, select Scan and Read from the Main Menu using the Action Button.

Steps for Saving a multi-page document or book:

Press and hold the Action Button, then press the Back Button. Three options will be given:

- Save:
- Open:
- Delete:

If the first option you hear is Save, press the Action Button. If the first option you hear is not Save, use the Right Roller until you come to the Save option, and then press the Action Button. The Save menu offer three options:

- Save without voice label
- Save with voice label (for use only for items saved to the ACE device, not to a USB flash drive)
- Save Book

Use the Right Roller to scroll down to the “Save Book” option, and press the Action Button. You will hear “Please, record five-second voice label.” Speak the name of the document after you hear a beep. At the end of the recording, you will hear another beep, and the voice label will be played back to you. If you are satisfied with your recording, press the Action Button. To cancel the recording, press the Back Button. You will be prompted to record again. You will hear: “Confirm save.” Confirm using the Action Button. Then, you will hear: “Start scanning pages.”

To start adding pages to your multi-page document or book, place the first page you want to scan under the camera and press the Scan Button. You will hear the double shutter sound. Turn the page, and press the Scan Button again to add the next page. When you have finished adding pages, press and hold the Action Button, then press the Back Button. You will hear: “Book saved.”

Opening a Single-page Document

To open a previously saved single-page document, go to the Main Menu and select the Scan and Read Option with the Action Button and then press the Back Button. Use the Right Roller to scroll down to Open, and press the Action Button. The ROL will read the label for the last saved document. Use the Right Roller to scroll through the list, and press the Action Button to select the document or book you would like to read.

Opening a Book

To open a previously saved book, go to the Main Menu and select the Scan and Read Option. Press and hold the Action Button, and then press the Back Button. Use the Right Roller to scroll down to Open, and press the Action Button. Use the Right Roller to scroll through the list, and press the Action Button to select

the book you would like to open. The book will open in a JPG format initially, and then it will be converted to text and read aloud.

Converting a Book to Text

Select the Open option as instructed in the previous paragraph. Press the Action Button to select a book you'd like to read. Three menu options will be given:

- Open Book
- **Convert Book to Text**
- Convert Book to MP3

Scroll with the Right Roller to Convert Book to Text, and press Action Button to select. You will hear: "Please wait." Do not interrupt the process of conversion images to text. Next, you will hear: "Conversion complete." Please note that conversion to text may take a long time and depends on how many pages are being converted. To read the converted book, go to Open book, select the book you would like to read, then select the text file.

Converting a Book to MP3

PLEASE NOTE: This option available only for books that are scanned through the ROL and saved onto a flash drive. Do not use it for the internally saved books.

Select the Open menu as instructed previously. Press the Action Button to select a book you'd like to convert to audio. Three menu options will be given:

- Open Book
- Convert book to text
- **Convert Book to MP3**

Scroll with the Right Roller to Convert Book to MP3, and press the Action Button to select. You will hear: "Please wait." Do not interrupt the process of conversion images to MP3. Next, you'll hear: "Conversion complete." Now you can take out the flash drive and insert it in your computer or MP3 player to listen to the saved book.

Book Navigation

While reading the saved book use the Daisy arrow Buttons to navigate through the text. Press the up arrow to go to the previous page. You will hear, for example, "Opening page two of three." Press the down arrow to go to the next page. You will hear, for example, "Opening page three of three." Press the left

arrow to go to the previous word; Press right arrow to go to the next word. Press the Action Button to pause/resume reading.

Deleting a Document

To delete a previously saved document or book, go to the Main Menu and select the Scan and Read Option with the Action Button, and then press the Back Button. Use the Right Roller to scroll down to Delete and press the Action Button. The Ace will read the label for the last saved document. Use the Right Roller to scroll through the list, and press the Action Button to select the document or book you want to delete. You will hear: “Are you sure you want to delete?” If you are sure, press the Action Button, or, if it is not the document you want to choose, press the Back Button to select a different document.

Calendar/Reminders

The calendar application allows you to create reminders for yourself using your voice. You can create a new reminder for today or any future date. You can define the exact time hour/minutes when you want to hear an alarm with the message you recorded. You can hear your reminder for the today, or for the next week (7 days) or for the next month (31 days). Any reminder may be deleted or re-recorded.

To access the calendar function, press the **Home Button** to go the **Main Menu**, and use the **Right Roller** to scroll down to the **Calendar** menu item. Then, press the **Action Button** to confirm the menu item selection. Use the **Right Roller** to scroll down to one of these options: **Add reminder, All reminders, next 7 days, next 31 day, Reminders by day**. Press the **Action Button** to confirm the menu item selection, then follow the voice commands. Use the **Right Roller** to scroll through available options. Then, press the **Action Button** one final time to set the selection.

When you select the Calendar application from the Main Menu, the ROL announces the current date. Use the Right Roller to scan through the options, and press the Action Button to select one of them:

- Today
- Add Reminder
- Reminders by Day
- Next 7 days

- Next 31 days
- All Reminders

For any of the above options, you will use the Right Roller to scroll through saved reminders, or hear the message that there is no reminders for the selected day.

To add a new reminder select the “Add Reminder” option. Select a date using the Left Roller to change the month, and the Right Roller to change the day of the month. Press the Action Button to confirm the selected day. You will be prompted to start recording your reminder. Your recording may be no longer than 30 seconds. The ROL will play back the recording and you will be given an option to delete or to change it.

Clock/Alarm Clock

Select this application from the Main Menu to instantly hear the current day/time. Press the Action Button to set the alarm time and alarm mode. To set the alarm time use the Left Roller to change hour, and the Right Roller to change minute. Press the Action Button to select the mode – One Time Alarm or Daily Alarm.

Settings

The following options are available:

General Settings

 Reading Speed

 Voice

 Time Format

Set Time and Date

 Set Time

 Set Date

Status:

 Battery

 Version

 Model

 Serial Number

Customize Main Menu

Upgrade Software

 When new software versions are released, they can be obtained from

AbiSee, Inc or your local dealer and can be installed by selecting this setting.

Reset All Settings

PLEASE NOTE: The ROL must be turned off/on after changing the Time and Date.

Help

Select the Help option from the Main Menu to hear the detailed description of the ROL functionality and how to use each function. You can interrupt the Help talk by pressing any Button, the ROL will explain the function of that Button. If you press The Home Button, you will return to the Main Menu.

Appendix A: Safety Rules

- Handle the ROL with care. Rough handling will damage the device.
- When you carry the device outside, use the special bag. If the ROL is not in a standing position, do not place any heavy or sharp objects on it.
- Use only the Power Adapter that comes with the ROL.
- Do not open the ROL under any circumstances; it will void the warranty. Contact AbiSee or your dealer for service if necessary.
- Remember that the battery is built-in, and cannot be removed.
- Do not expose the ROL to excessive heat or direct sunlight to avoid risk of fire.
- Do not use the ROL near inadequately shielded medical devices.
- To avoid risk of electrical damage, keep your ROL away from water or fluid chemicals.
- To clean the device, first unplug it. Clean the exterior of the ROL only, using a soft fabric. Do not use chemicals or abrasive materials.
- When storing the device, do not put any heavy items on top of it.

Use of the ROL only as it is described in this manual. Warranty will be voided if the device is used with violations of these rules.

Appendix B. Troubleshooting

Troubleshooting for power/battery/connections

- If the ROL does not respond to any button, make sure the battery is charged. If the battery is depleted, connect the power adaptor to charge the battery. If the battery is fully charged, but the device stopped responding to any Button, turn the device off, then on again.
- If the adaptor does not power the ROL, check the connections. Make sure the power adaptor is firmly connected to the ROL and to the power outlet. If the adaptor still does not power the unit, contact Abisee or your ABiSee distributor.
- If the battery does not power the ROL, The battery may be depleted. Connect the power adaptor to charge the battery.

Troubleshooting: Scan and Read Application

- If the text you are reading does not make sense, do not stress Scan Button. Press it and wait for the shutter sound. Make sure your reading language is the same language as your document. Switch to/from tables reading mode.
- If the text recognition takes unusually long before starting to read your document, or it is not accurate, make sure your reading language is the same language as your document. Place a document, leaving it still and making sure there is nothing between the cameras and the document. Press Scan Button just once, and wait for the shutter sound. Do not stress the Daisy keys during the OCR process; wait until OCR is done before you navigate through the text.

Troubleshooting the Calendar Application

- If you do not hear the reminder after you finished your recording, increase the volume – turn Volume Knob clockwise. Make sure that when you are talking your face is close to the device.
- If you think that you did not hear the reminder you have entered at the right date/time, go to Main Menu and Select Calendar. Then use the Right Roller to scroll to All Reminders and press the Action Button check if the expected reminder exists. It is most likely that it has not been scheduled for the time you tried to hear it.

Contact ABiSee:

We welcome your comments, questions and suggestions.

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